

UNITED STATES DEPARTMENT OF COMMERCE United States Patent and Trademark Office Address COMMISSIONER FOR PATENTS F O Box 1450 Alexandria, Virginia 22313-1450 www.uspilo.gov

			_	
APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
09/846,849	05/02/2001	Alejandro Schwartzman	CISCP203	5618
22414 7590 93/31/2008 BEYER WEAVER LLP P.O. BOX 70250 OAKLAND, CA 94612-0250			EXAMINER	
			USTARIS, JOSEPH G	
			ART UNIT	PAPER NUMBER
			2623	
			MAIL DATE	DELIVERY MODE
			03/31/2008	PAPER

Please find below and/or attached an Office communication concerning this application or proceeding.

The time period for reply, if any, is set in the attached communication.

Application No. Applicant(s) 09/846.849 SCHWARTZMAN ET AL. Office Action Summary Examiner Art Unit JOSEPH G. USTARIS 2623 -- The MAILING DATE of this communication appears on the cover sheet with the correspondence address --Period for Reply A SHORTENED STATUTORY PERIOD FOR REPLY IS SET TO EXPIRE 3 MONTH(S) OR THIRTY (30) DAYS. WHICHEVER IS LONGER, FROM THE MAILING DATE OF THIS COMMUNICATION. Extensions of time may be available under the provisions of 37 CFR 1.136(a). In no event, however, may a reply be timely filed after SIX (6) MONTHS from the mailing date of this communication. If NO period for reply is specified above, the maximum statutory period will apply and will expire SIX (6) MONTHS from the mailing date of this communication. Failure to reply within the set or extended period for reply will, by statute, cause the application to become ABANDONED (35 U.S.C. § 133). Any reply received by the Office later than three months after the mailing date of this communication, even if timely filed, may reduce any earned patent term adjustment. See 37 CFR 1.704(b). Status 1) Responsive to communication(s) filed on 30 January 2008. 2b) This action is non-final. 3) Since this application is in condition for allowance except for formal matters, prosecution as to the merits is closed in accordance with the practice under Ex parte Quayle, 1935 C.D. 11, 453 O.G. 213. Disposition of Claims 4) Claim(s) 1-63 is/are pending in the application. 4a) Of the above claim(s) is/are withdrawn from consideration. 5) Claim(s) _____ is/are allowed. 6) Claim(s) 1-63 is/are rejected. 7) Claim(s) _____ is/are objected to. 8) Claim(s) _____ are subject to restriction and/or election requirement. Application Papers 9) The specification is objected to by the Examiner. 10) ☐ The drawing(s) filed on 02 May 2001 is/are: a) ☐ accepted or b) ☐ objected to by the Examiner. Applicant may not request that any objection to the drawing(s) be held in abevance. See 37 CFR 1.85(a). Replacement drawing sheet(s) including the correction is required if the drawing(s) is objected to. See 37 CFR 1.121(d). 11) The oath or declaration is objected to by the Examiner, Note the attached Office Action or form PTO-152. Priority under 35 U.S.C. § 119 12) Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f). a) ☐ All b) ☐ Some * c) ☐ None of: Certified copies of the priority documents have been received. 2. Certified copies of the priority documents have been received in Application No. Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)). * See the attached detailed Office action for a list of the certified copies not received.

1) Notice of References Cited (PTO-892)

Paper No(s)/Mail Date

Notice of Draftsperson's Patent Drawing Review (PTO-948)

Information Disclosum Statement(s) (PTO/SB/08)

Attachment(s)

Interview Summary (PTO-413)
 Paper No(s)/Mail Date.

6) Other:

5) Notice of Informal Patent Application

Page 2

Application/Control Number: 09/846,849

Art Unit: 2623

DETAILED ACTION

Response to Amendment

 This action is in response to the amendment dated January 30, 2008 in application 09/846,849.

Response to Arguments

The 35 U.S.C. 101 rejection of claims 23-27 is now withdrawn in view of the amendments.

Applicant's arguments filed January 30, 2008 have been fully considered but they are not persuasive.

Applicant argues with respect to claims 1-63 that Chiu, Burke, Sawyer, and Hillman do not disclose varying the activation window length based on the drift between a cable modem clock and a headend clock. However, reading the claims in the broadest sense, Chiu in view of Burke, Sawyer, and Hillman does meet that limitation in the claims. Hillman does disclose a modem network (See Figs. 1 and 4; col. 9 lines 3-13), wherein Hillman discloses that the system modulates and demodulates data on a carrier frequency much like cable modems. Furthermore, anyone skill in the art would recognize that any network is susceptible to noise thereby causing clock drifts between devices. Hillman addresses this problem by providing a solution to reduce the amount of drift between clocks. Hillman discloses an activation window length (e.g. the wake-up window) is varied based on drift between a cable modem (e.g. receiver clock) and a headend clock (e.g. monitoring center clock) (See col. 17 line 52 – col. 18 line 29).

Art Unit: 2623

Applicant further argues that Hillman lies in an unrelated art area. However, Hillman does disclose a modem (See col. 9 lines 3-13) within a network that requires clock synchronization with a main facility (e.g. much like a headend). One of ordinary skill in the art of modems would recognize that the modem disclosed by Hillman operates in a similar fashion with the cable modem disclosed by Chiu, Burke, and Sawyer wherein both modems modulate and demodulate data on a carrier frequency within the RF spectrum.

Applicant also argues that Hillman also differs in communication mechanisms and protocol. However both Chiu and Hillman disclose modems that communicate over the RF spectrum. Both modems modulate and demodulate data on a carrier frequency (See Chiu Fig. 4 and Hillman col. 9 lines 3-13). Furthermore, Hillman discloses that the modem can use other bands within the RF spectrum and that the modem can also use other modulation/demodulation methods (See col. 9 lines 3-13). Therefore, one of ordinary skill in the art of modems would recognize that the modem disclosed by Hillman is similar to a cable modem.

Applicant further emphasizes that one skilled in the art of cable modems do not have expertise in vehicle tracking and security. However, one skill in the art of modems does have expertise in how a modem communicates in a network. Hillman discloses a modem and how that modem communicates in a network (See col. 9 lines 3-13 and col. 17 line 52 – col. 18 line 29). Therefore, one of ordinary skill in modems would recognize the teachings of how to manage the communications of a modem from Hillman.

Art Unit: 2623

Applicant also argues that the scale and type of communications would not work in the cable modem context. However, as discussed above, it is shown that the modem disclosed by Hillman is similar to cable modems. Furthermore, Hillman suggests that the modem can be adapted to operate under different environments (e.g. different band and different modulation/demodulation methods) (See col. 9 lines 3-13). Therefore, one of ordinary skill in modems can easily modify the modem disclosed Hillman to fit the environment of cable modems.

Furthermore, varying the activation window length based on the drift between two clocks would have been a predictable modification – varying the activation window length based on the drift between two clocks has known advantages such reducing clock drifts between two clocks as disclosed by Hillman, and a person of ordinary skill in the art would recognize that it would improve similar devices (e.g. cable modems) in the same way.

Applicant argues with respect to claim 3 that Brusaw does not disclose a unicast SYNCH message. However, claim 3 is dependent of claim 2, wherein claim 2 recited the unicast SYNCH message. Chiu discloses a unicast SYNCH message (See col. 8 lines 9-20 and col. 12 lines 45-51), wherein the messages is directed to a particular cable modem (e.g. unicast) and the message includes SYNCH flags and commands used to synchronize the cable modem with the headend.

Furthermore, Brusaw was brought in to show that it is well known to have a message that contains periodic interval and activation window information as discussed in the claim rejection below.

Art Unit: 2623

Applicant is reminded that although the claims are interpreted in light of the specification, limitations from the specification are not read into the claims. See *In re Van Geuns*, 988 F.2d 1181, 26 USPQ2d 1057 (Fed. Cir. 1993).

Claim Rejections - 35 USC § 103

- The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:
 - (a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negatived by the manner in which the invention was made.
- Claims 1, 2, 4-7, 9, and 10 are rejected under 35 U.S.C. 103(a) as being unpatentable over Chiu et al. (US005883901A) in view of Burke et al. (US006233235B1), Sawyer et al. (US006765925B1), and Hillman et al (US006522265B1).

Regarding claim 1, Chiu et al. (Chiu) discloses a system for disabling and enabling receiver circuitry in a cable modem connected to a headend in a cable modem network (See Fig. 1; column 5 lines 20-34, column 11 lines 44-54, and column 12 lines 45-51). The signal conversion system (SCS) at the headend "transmits a first message with first instructions from the headend to the cable modem to disable the cable modem receiver circuitry" (See column 12 lines 45-51). The SCS of the headend "sets an indication of the cable modem receiver circuitry state to disabled" within the control frame subtype (See column 11 lines 44-54 and column 12 lines 45-51). Furthermore, the SCS at the headend can "transmit a second message with second instructions from

Page 6

Application/Control Number: 09/846,849 Art Unit: 2623

the headend to enable the cable modern receiver circuitry" (See column 12 lines 45-51).

The SCS of the headend also "sets the indication of the cable modem receiver circuitry state to enabled" within the control frame subtype (See column 11 lines 44-54 and column 12 lines 45-51). However, Chiu does not explicitly disclose (1) disabling the cable modem for periodic intervals separated by activation windows, (2) maintaining at the headend an indication of cable modem receiver circuitry state, and (3) wherein activation window length is varied based on drift between a cable modem clock and a headend clock.

(1) Burke et al. (Burke) discloses a cable modem system that is able to control cable modems and perform power management (See Fig. 1). The control server at the headend is able to disable the cable modem receiver for periodic intervals (e.g. the cable modem is disabled anytime outside its assigned group alert phase) separated by activation windows (e.g. the cable modem may be activated during its assigned group alert phase) (See Figs. 3, 7, and 8; column 7 line 57 – column 8 line 52). A group alert message or "second message" is processed when received within the "activation window". Furthermore, the headend is configured to identify the activation window (e.g. the assigned group alert phase) corresponding to the time the cable modem receiver circuitry is enabled (e.g. when the cable modem will be awake) prior to transmitting the second message (e.g. group alert message) during the activation window since the control server or headend assigned the cable modems their group alert phase when the cable modems registered themselves with the control server or headend (See Figs. 3, 7, and 8; column 7 line 57 – column 8 line 52). Therefore, it would have been obvious to

Page 7

Application/Control Number: 09/846,849

Art Unit: 2623

one with ordinary skill in the art at the time the invention was made to modify the SCS at the headend and cable modem disclosed by Chiu to be able to disable the cable modem for periodic intervals where any message received during a period outside the activation window is ignored, as taught by Burke, in order to provide a more efficient means of controlling the state of the cable modem thereby providing a better power management system that reduces the power consumption (See column 6 lines 25-30).

- (2) Sawyer et al. (Sawyer) discloses a system and method of maintaining state information in a data transmission system with cable modems. Sawyer discloses that the CMTS stores state information for each cable modem. The state information includes information pertaining to the state of communications between the CMTS and the cable modem (e.g. the channel the cable modem is using) or "maintaining at the headend an indication of cable modem receiver circuitry state" (See col. 1 line 42 col. 2 line 35). Therefore, it would have been obvious to one with ordinary skill in the art at the time the invention was made to modify the headend/CMTS to "maintain at the headend an indication of cable modem receiver circuitry state", as taught by Sawyer, in order to provide a central location and an efficient means of handling all state information of the cable modems.
- (3) Burke discloses that the clocks of the cable modem and headend are synchronized (See col. 5 lines 46-57). However, Burke does not address the concern of when a cable modem misses the synchronization signal due to noise in the cable system or packet loss thereby causing clock drift between the cable modem and headend. Hillman et al. (Hillman) discloses a system that using a modem (See col. 9

Art Unit: 2623

lines 3-13). Hillman addresses the problem of when a modern misses the synchronization window. Hillman discloses an activation window length (e.g. the wake-up window length) is varied based on drift between a cable modern clock (e.g. receiver clock) and a headend clock (e.g. monitoring center clock) (See col. 17 line 52 – col. 18 line 29). Therefore, it would have been obvious to one with ordinary skill in the art at the time the invention was made to modify the modern disclosed by Chiu in view of Burke to vary the length of an activation window based on drift between a cable modern clock and a headend clock, as taught by Hillman, in order to reduce the drift between the cable modern and headend clock thereby ensuring that the cable modern will not miss its window (See col. 18 lines 6-11).

Regarding claim 2, the disable message is a "unicast SYNCH message", wherein the message is directed to a particular cable modern (See Chiu column 8 lines 9-20 and column 12 lines 45-51).

Regarding claim 4, the enable message is also a "unicast SYNCH message", wherein the message is directed to a particular cable modem (See Chiu column 8 lines 9-20 and column 12 lines 45-51).

Regarding claim 5, Chiu in view of Burke, Sawyer, and Hillman discloses that various time periods can be defined for when the receiver is enabled or disabled based on the predetermined sleep interval (See Burke column 6 lines 30-35).

Official Notice is taken that is well known schedule an "activation window" for any amount of time (e.g. 100 milliseconds). Therefore, it would have been obvious to one with ordinary skill in the art at the time the invention was made to modify the "activation"

Art Unit: 2623

window" disclosed by Chiu in view of Burke, Sawyer, and Hillman to be any amount of time (e.g. 100 milliseconds) in order to provide more options for the system to protect the access to the network.

Regarding claim 6, Chiu in view of Burke, Sawyer, and Hillman discloses that various time periods can be defined for when the receiver is enabled or disabled based on the predetermined sleep interval (See Burke column 6 lines 30-35).

Official Notice is taken that is well known schedule the "periodic intervals" for any amount of time (e.g. 10 seconds). Therefore, it would have been obvious to one with ordinary skill in the art at the time the invention was made to modify the "periodic intervals" disclosed by Chiu in view of Burke, Sawyer, and Hillman to be any amount of time (e.g. 10 seconds) in order to provide more options for the system to protect the access to the network

Regarding claim 7, when the cable modem is disabled for the "periodic intervals", inherently received messages are ignored as discussed in claim 1 above.

Regarding claim 9, when the cable modem is disabled for the "periodic intervals", inherently the transmitter circuitry is also disabled.

Regarding claim 10, inherently, when the cable modem is disabled, the transmitter circuitry is also disabled as discussed in claim 9 above. Therefore, no messages are transmitted from the cable modem to the headend.

Claim 3 is rejected under 35 U.S.C. 103(a) as being unpatentable over Chiu et al.
 (US005883901A) in view of Burke et al. (US006233235B1), Sawyer et al.

Application/Control Number: 09/846,849 Art Unit: 2623

(US006765925B1), and Hillman et al (US006522265B1) as applied to claims 1, 2, 4-7, 9, and 10 above, and further in view of Brusaw (US005523781A).

Regarding claim 3, Chiu in view of Burke, Sawyer, and Hillman does not explicitly disclose that the messages contain periodic intervals and activation window information.

Brusaw discloses a system for controlling a television by using control messages (See column 3 line 63 – column 4 line 2). Brusaw discloses that the messages can contain times or "periodic intervals and activation window information" of when certain commands are to be executed (See column 10 line 66 – column 11 line 10). Therefore, it would have been obvious to one with ordinary skill in the art at the time the invention was made to modify the messages disclosed by Chiu in view of Burke, Sawyer, and Hillman to include periodic intervals and activation window information, as taught by Brusaw, in order to provide a more efficient means of transporting various commands and command attributes to and from the headend and cable modern.

Claim 8 is rejected under 35 U.S.C. 103(a) as being unpatentable over Chiu et al.
 (US005883901A) in view of Burke et al. (US006233235B1), Sawyer et al.
 (US006765925B1), and Hillman et al (US006522265B1) as applied to claims 1, 2, 4-7,
 9, and 10 above, and further in view of Wall et al. (US 20030037160A1).

Regarding claim 8, Chiu in view of Burke, Sawyer, and Hillman does not disclose that the cable modern ignores multicast messages during an "activation window".

Wall et al. (Wall) discloses a system that is able to control the entry of data to a network environment. Wall discloses that some network nodes are configured to

Art Unit: 2623

automatically ignore multicast messages (See paragraph 0018). Therefore, it would have been obvious to one with ordinary skill in the art at the time the invention was made to modify the cable modern disclosed by Chiu in view of Burke, Sawyer, and Hillman to be configured to ignore multicast messages, as taught by Wall, in order to provide a more secure and bandwidth efficient connection to the network.

Claims 11-19, 21-29, 31-34, 36-39, 41-50, 52-60, 62, and 63 are rejected under
 U.S.C. 103(a) as being unpatentable over Chiu et al. (US005883901A) in view of
 Burke et al. (US006233235B1) and Hillman et al (US006522265B1).

Regarding claim 11, Chiu et al. (Chiu) discloses a system for disabling and enabling receiver circuitry in a cable modem connected to a headend in a cable modem network (See Fig. 1; column 5 lines 20-34, column 11 lines 44-54, and column 12 lines 45-51). The signal conversion system (SCS) at the headend "transmits a first message with first instructions from the headend to the cable modem to disable the cable modem receiver circuitry" (See column 12 lines 45-51). The SCS of the headend "sets an indication of the cable modem receiver circuitry state to disabled" within the control frame subtype (See column 11 lines 44-54 and column 12 lines 45-51). Furthermore, the SCS at the headend can "transmit a second message with second instructions from the headend to enable the cable modem receiver circuitry" (See column 12 lines 45-51). The SCS of the headend also "sets the indication of the cable modem receiver circuitry state to enabled" within the control frame subtype (See column 11 lines 44-54 and column 12 lines 45-51). Furthermore, the cable modem receives the commands and

Art Unit: 2623

disables/enables the cable modem according to the instructions within the messages. However, Chiu does not disclose (1) disabling the cable modem for periodic intervals separated by activation windows and (2) wherein activation window length is varied based on drift between a cable modem clock and a headend clock.

(1) Burke et al. (Burke) discloses a cable modern system that is able to control cable moderns and perform power management (See Fig. 1). The control server at the headend is able to disable the cable modern receiver for periodic intervals (e.g., the cable modern is disabled anytime outside its assigned group alert phase) separated by activation windows (e.g. the cable modern may be activated during its assigned group alert phase) (See Figs. 3, 7, and 8; column 7 line 57 - column 8 line 52). A group alert message or "second message" is processed when received within the "activation window". Furthermore, the headend is configured to identify the activation window (e.g. the assigned group alert phase) corresponding to the time the cable modem receiver circuitry is enabled (e.g. when the cable modern will be awake) prior to transmitting the second message (e.g. group alert message) during the activation window since the control server or headend assigned the cable moderns their group alert phase when the cable modems registered themselves with the control server or headend (See Figs. 3. 7, and 8; column 7 line 57 - column 8 line 52). Therefore, it would have been obvious to one with ordinary skill in the art at the time the invention was made to modify the SCS at the headend and cable modem disclosed by Chiu to be able to disable the cable modem for periodic intervals where any message received during a period outside the activation window is ignored, as taught by Burke, in order to provide a more efficient

Art Unit: 2623

means of controlling the state of the cable modern thereby providing a better power management system that reduces the power consumption (See column 6 lines 25-30).

(2) Burke discloses that the clocks of the cable modem and headend are synchronized (See col. 5 lines 46-57). However, Burke does not address the concern of when a cable modern misses the synchronization signal due to noise in the cable system or packet loss thereby causing clock drift between the cable modem and headend, Hillman et al. (Hillman) discloses a system that using a modern (See col. 9 lines 3-13). Hillman addresses the problem of when a modem misses the synchronization window. Hillman discloses an activation window length (e.g. the wakeup window length) is varied based on drift between a cable modem clock (e.g. receiver clock) and a headend clock (e.g. monitoring center clock) (See col. 17 line 52 - col. 18 line 29). Therefore, it would have been obvious to one with ordinary skill in the art at the time the invention was made to modify the modern disclosed by Chiu in view of Burke to vary the length of an activation window based on drift between a cable modern clock and a headend clock, as taught by Hillman, in order to reduce the drift between the cable modern and headend clock thereby ensuring that the cable modern will not miss its window (See col. 18 lines 6-11).

Regarding claim 12, the disable message is a "unicast SYNCH message", wherein the message is directed to a particular cable modem (See column 8 lines 9-20 and column 12 lines 45-51).

Regarding claim 13, Chiu in view of Burke and Hillman discloses that the cable modem has a tuner (See Fig. 3, tuner 303). However, Chiu in view of Burke and Hillman

Art Unit: 2623

does not explicitly disclose that the tuner includes an RF amplifier, a mixer, a phase lock loop, and an IF amplifier.

Official Notice is taken that it is well known for tuners to include an RF amplifier, a mixer, a phase lock loop, and an IF amplifier. Therefore, it would have been obvious to one with ordinary skill in the art at the time the invention was made to modify the tuner of the cable modem disclosed by Chiu in view of Burke and Hillman to include an RF amplifier, a mixer, a phase lock loop, and an IF amplifier in order to provide a more efficient tuner thereby enhancing the performance of the tuner.

Regarding claim 14, the receiver further comprises a demodulator (See Chiu column 17 lines 7-10).

Regarding claim 15, the cable modem receiver further comprises one or more processors coupled with memory (See Chiu Fig. 3, microprocessor 302 and memory 309).

Regarding claim 16, the enable message is also a "unicast SYNCH message", wherein the message is directed to a particular cable modem (See column 8 lines 9-20 and column 12 lines 45-51).

Regarding claim 17, Chiu in view of Burke and Hillman discloses that various time periods can be defined for when the receiver is enabled or disabled based on the predetermined sleep interval (See Burke column 6 lines 30-35).

Official Notice is taken that is well known schedule an "activation window" for any amount of time (e.g. 100 milliseconds). Therefore, it would have been obvious to one with ordinary skill in the art at the time the invention was made to modify the "activation"

Art Unit: 2623

window" disclosed by Chiu in view of Burke and Hillman to be any amount of time (e.g. 100 milliseconds) in order to provide more options for the system to protect the access to the network.

Regarding claim 18, Chiu in view of Burke and Hillman discloses that various time periods can be defined for when the receiver is enabled or disabled based on the predetermined sleep interval (See Burke column 6 lines 30-35).

Official Notice is taken that is well known schedule the "periodic intervals" for any amount of time (e.g. 10 seconds). Therefore, it would have been obvious to one with ordinary skill in the art at the time the invention was made to modify the "periodic intervals" disclosed by Chiu in view of Burke to be any amount of time (e.g. 10 seconds) in order to provide more options for the system to protect the access to the network.

Regarding claim 19, when the cable modem is disabled for the "periodic intervals", inherently received messages are ignored as discussed in claim 1 above.

Regarding claim 21, when the cable modem is disabled for the "periodic intervals", inherently the transmitter circuitry is also disabled.

Regarding claim 22, inherently, when the cable modem is disabled, the transmitter circuitry is also disabled as discussed in claim 9 above. Therefore, no messages are transmitted from the cable modem to the headend.

Claim 23 contains the limitations of claim 11 (where inherently the SCS of the headend executes a computer program that has program instructions on a computer readable medium) and is analyzed as previously discussed with respect to that claim.

Art Unit: 2623

Claims 24-27 contains the limitations of claims 12 and 16-18 respectively and is analyzed as previously discussed with respect to those claims.

Claim 28 contains the limitations of claim 11 (wherein the headend transmits the messages) and is analyzed as previously discussed with respect to that claim.

Furthermore, the headend has memory and one or more processors (See Chiu Fig. 2.

CPU 209 and RAM).

Claims 29, 31-34, 36, and 37 contains the limitations of claims 12, 16-19, 21, and 22 respectively and is analyzed as previously discussed with respect to those claims.

Claim 38 contains the limitations of claim 11 (wherein the cable modem or "apparatus" has a transmitter, memory, one or more processors, and a receiver (See Chiu Fig. 3)) and is analyzed as previously discussed with respect to that claim.

Claims 39 and 41-44 contains the limitations of claims 12, 16, and 13-15 respectively and is analyzed as previously discussed with respect to those claims.

Claim 45 contains the limitations of claims 11 and is analyzed as previously discussed with respect to that claim.

Claims 46-50, 52, and 53 contains the limitations of claims 12, 16-19, 21, and 22 respectively and is analyzed as previously discussed with respect to those claims.

Claim 54 contains the limitations of claim 11 and is analyzed as previously discussed with respect to that claim.

Claims 55-60, 62, and 63 contains the limitations of claims 12-16, 19, 21, and 22 respectively and is analyzed as previously discussed with respect to those claims.

Application/Control Number: 09/846,849 Art Unit: 2623

Claims 20, 35, 51, and 61 are rejected under 35 U.S.C. 103(a) as being unpatentable over Chiu et al. (US005883901A) in view of Burke et al. (US006233235B1) and Hillman et al (US006522265B1) as applied to claims 11-19, 21-29, 31-34, 36-39, 41-50, 52-60, 62, and 63 above, and further in view of Wall et al. (US 20030037160A1).

Regarding claim 20, Chiu in view of Burke and Hillman does not disclose that the cable modern ignores multicast messages during an "activation window".

Wall et al. (Wall) discloses a system that is able to control the entry of data to a network environment. Wall discloses that some network nodes are configured to automatically ignore multicast messages (See paragraph 0018). Therefore, it would have been obvious to one with ordinary skill in the art at the time the invention was made to modify the cable modern disclosed by Chiu in view of Burke and Hillman to be configured to ignore multicast messages, as taught by Wall, in order to provide a more secure and bandwidth efficient connection to the network

Claims 35, 51, and 61 contains the limitations of claim 20 respectively and is analyzed as previously discussed with respect to that claim.

Claims 30 and 40 are rejected under 35 U.S.C. 103(a) as being unpatentable over Chiu et al. (US005883901A) in view of Burke et al. (US006233235B1) and Hillman et al (US006522265B1) as applied to claims 11-19, 21-29, 31-34, 36-39, 41-50, 52-60, 62, and 63 above, and further in view of Brusaw (US005523781A).

Art Unit: 2623

Regarding claim 30, Chiu in view of Burke and Hillman does not explicitly disclose that the messages contain periodic intervals and activation window information.

Brusaw discloses a system for controlling a television by using control messages (See column 3 line 63 – column 4 line 2). Brusaw discloses that the messages can contain times or "periodic intervals and activation window information" of when certain commands are to be executed (See column 10 line 66 – column 11 line 10). Therefore, it would have been obvious to one with ordinary skill in the art at the time the invention was made to modify the messages disclosed by Chiu in view of Burke and Hillman to include periodic intervals and activation window information, as taught by Brusaw, in order to provide a more efficient means of transporting various commands and command attributes to and from the headend and cable modern.

Claim 40 contains the limitations of claims 30 and 39 and is analyzed as previously discussed with respect to those claims.

Conclusion

 THIS ACTION IS MADE FINAL. Applicant is reminded of the extension of time policy as set forth in 37 CFR 1.136(a).

A shortened statutory period for reply to this final action is set to expire THREE MONTHS from the mailing date of this action. In the event a first reply is filed within TWO MONTHS of the mailing date of this final action and the advisory action is not mailed until after the end of the THREE-MONTH shortened statutory period, then the shortened statutory period will expire on the date the advisory action is mailed, and any

Art Unit: 2623

extension fee pursuant to 37 CFR 1.136(a) will be calculated from the mailing date of the advisory action. In no event, however, will the statutory period for reply expire later than SIX MONTHS from the mailing date of this final action.

Any inquiry concerning this communication or earlier communications from the examiner should be directed to JOSEPH G. USTARIS whose telephone number is (571)272-7383. The examiner can normally be reached on M-F 7:30-5 PM; Alternate Fridays off.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Christopher S. Kelley can be reached on 571-272-7331. The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free). If you would like assistance from a USPTO Customer Service Representative or access to the automated information system, call 800-786-9199 (IN USA OR CANADA) or 571-272-1000.

/Chris Kelley/

Art Unit: 2623

Supervisory Patent Examiner, Art Unit 2623

/Joseph G Ustaris/ Examiner, Art Unit 2623 March 25, 2008